

Figure 1

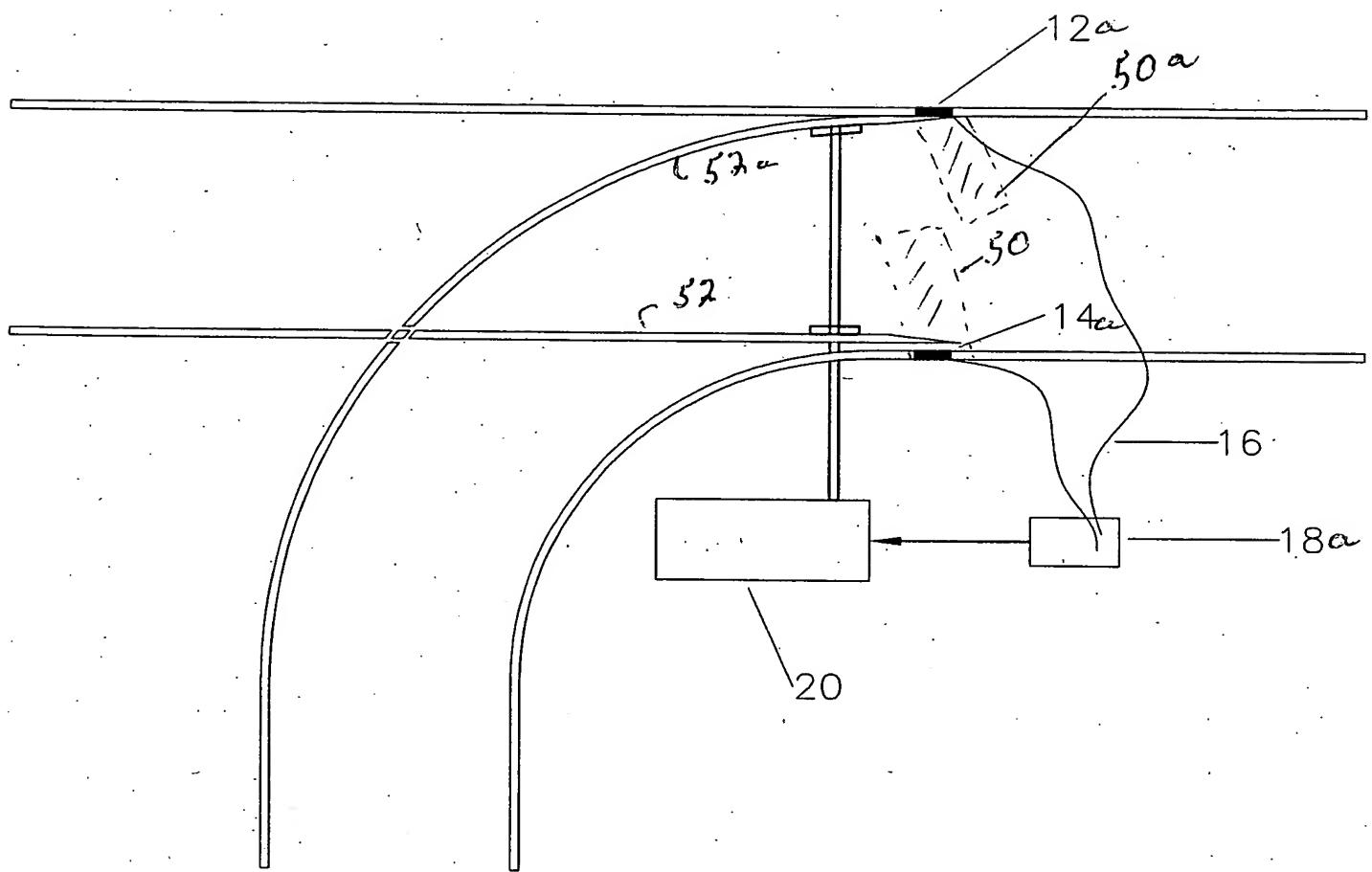


Figure 2

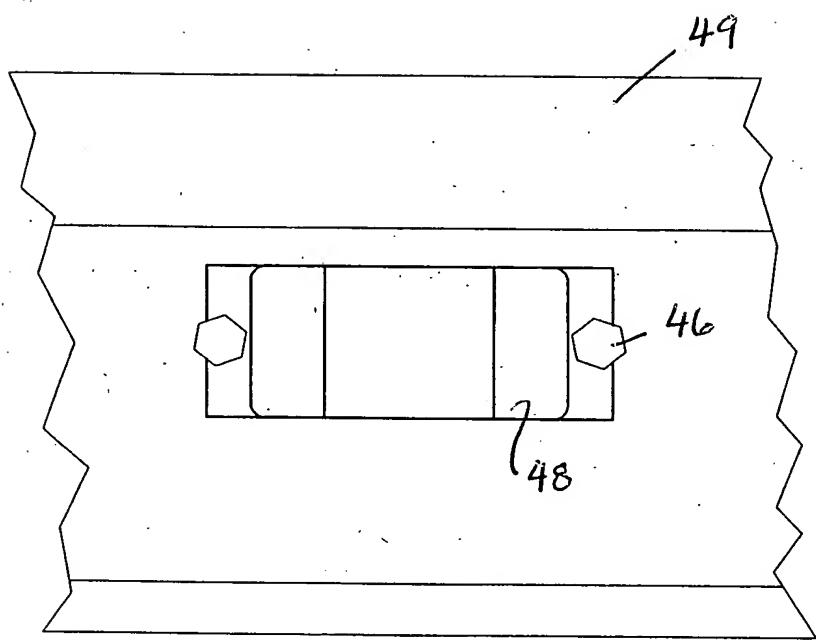


FIGURE 3a

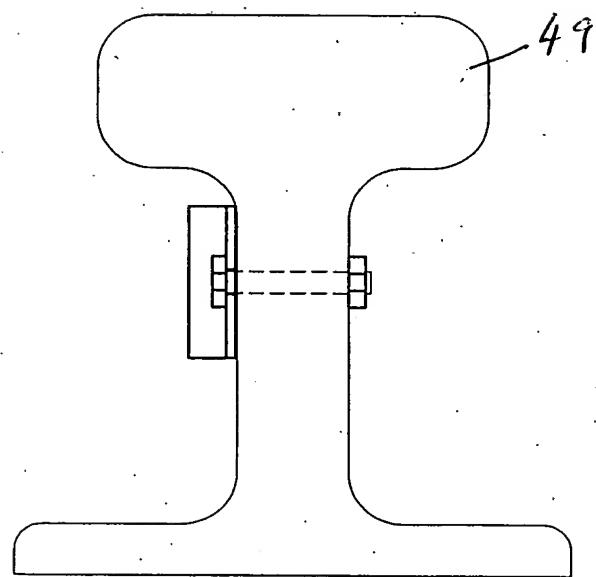
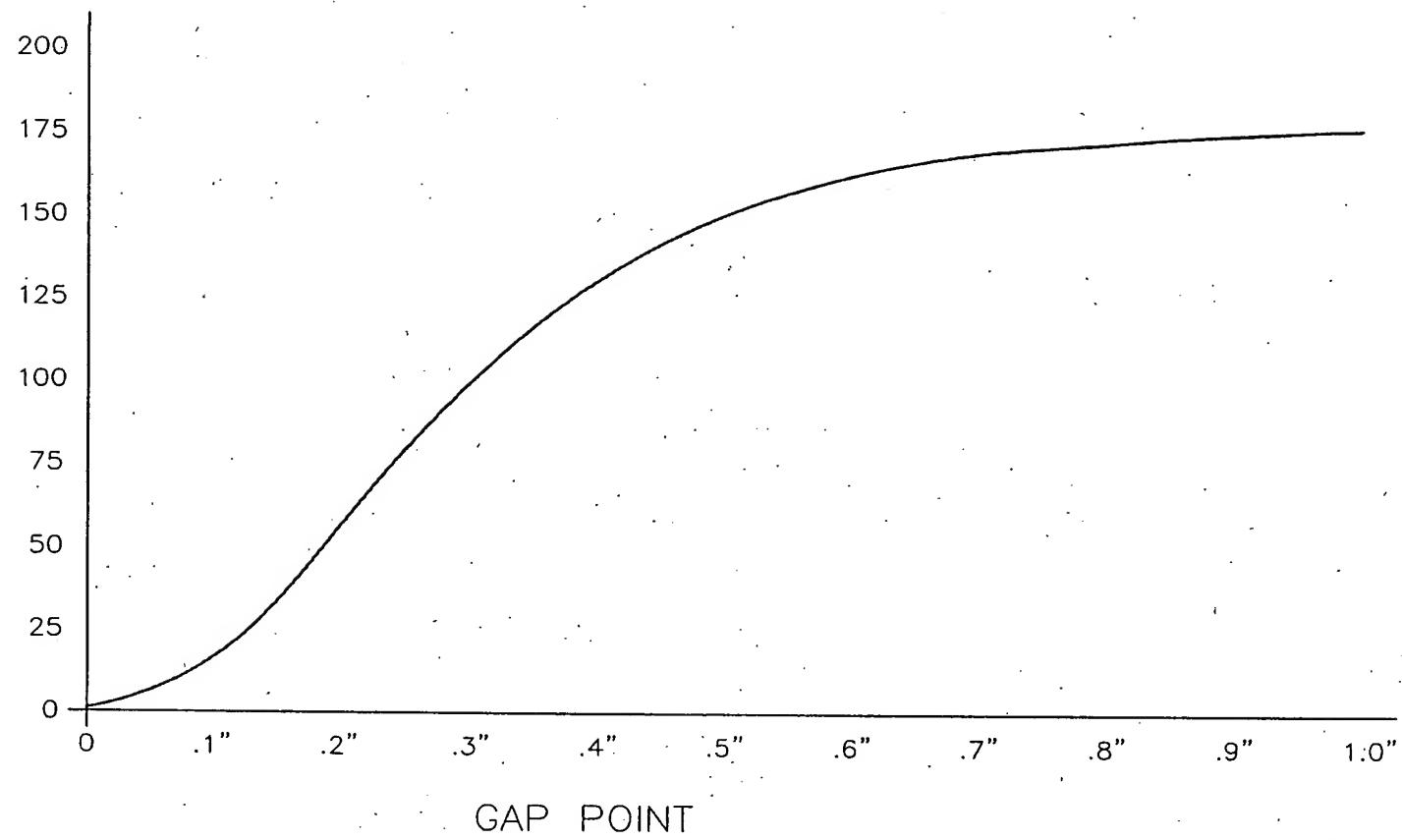


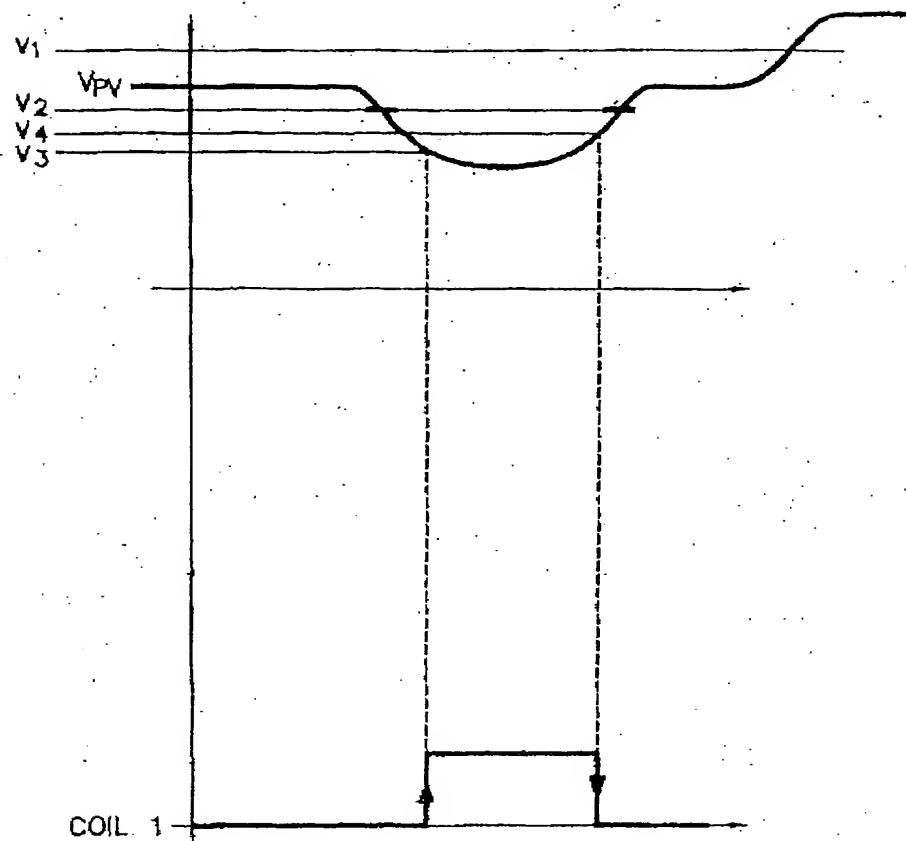
FIGURE 3b

MEASURED COIL FREQUENCY AMPLITUDE



GAP POINT

Figure 4



Digital representation of the above analog signals inverted

- V<sub>PV</sub> Power-up calibration point/compensation
- V<sub>2</sub> Point where AUTO Compensation is halted
- V<sub>4</sub> Point where the rail is out of the field
- V<sub>3</sub> Point where the rail is detected
- V<sub>1</sub> Point when the sensor has fallen off the rail
- V<sub>4</sub> - V<sub>3</sub> = the hysteresis

Figure 5